

What is claimed is:

1. A transmit power determining apparatus comprising:

a determining section that determines transmit power of a symbol including a first layer code string
5 and a second layer code string having hierarchically different error rates; and

a storage section that stores a target value with respect to a ratio of mobile stations receiving both said first layer code string and said second layer code string
10 without errors,

wherein said determining section determines to increase transmit power of said symbol when said ratio is less than said target value.

15 2. The transmit power determining apparatus according to claim 1, wherein the error rate of said first layer code string is smaller than the error rate of said second layer code string, and

said transmit power determining apparatus further
20 comprises a ratio calculation section that calculates said ratio from the total number of mobile stations in the cell and the number of mobile stations which have received said second layer code string without errors.

25 3. The transmit power determining apparatus according to claim 1, wherein when said ratio is equal to or greater than said target value, said determining section determines to increase transmit power of said symbol when

at least one of a plurality of mobile stations sends an instruction for increasing transmit power and determines to decrease transmit power of said symbol when all of the plurality of mobile stations send instructions for
5 decreasing transmit power.

4. The transmit power determining apparatus according to claim 1, wherein the error rate of said first layer code string is smaller than the error rate of said second
10 layer code string, and

said transmit power determining apparatus further comprises a ratio calculation section that calculates an average value of BLERs of said second layer code string at a plurality of mobile stations as said ratio.
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5. The transmit power determining apparatus according to claim 1, wherein the error rate of said first layer code string is smaller than the error rate of said second layer code string, and

20 said determining section determines an amount of increase of transmit power of said symbol based on a difference between reception quality at a mobile station and reception quality necessary to receive said second layer code string without errors.

25 6. The transmit power determining apparatus according to claim 5, wherein said determining section regards the minimum reception quality of reception quality at mobile

stations which have received said second layer code string without errors as the reception quality necessary to receive said second layer code string without errors.

5 7. A radio communication base station apparatus comprising the transmit power determining apparatus according to claim 1.

8. A radio channel control station apparatus comprising
10 the transmit power determining apparatus according to claim 1.

9. A transmit power determining method for determining transmit power of a symbol including a first layer code
15 string and a second layer code string having hierarchically different error rates, determining to increase transmit power of said symbol when the ratio of mobile stations that receive both said first layer code string and said second layer code string without
20 errors is less than a desired target value.